





Protein Nucleotide Genome Structure **PopSet** Taxonomy **OMIM** PubMed Bo Search PubMed Go Clear $\overline{\mathbf{v}}$ for Limits Preview/Index History Details Clipboard About Entrez Show: 20 Sort Abstract File ₹ Display Send to **Text Version** ☐ 1: Science 1987 Jan 23;235(4787):442-7 Related Articles, Links Entrez PubMed Overview Angiogenic factors. Help | FAQ **Tutorial** New/Noteworthy Folkman J, Klagsbrun M. E-Utilities Within the past 2 years, several angiogenic factors have been fully purified, **PubMed Services** their amino acid sequences determined, and their genes cloned. These Journals Database MeSH Browser polypeptides include acidic and basic fibroblast growth factor, angiogenin. Single Citation Matcher and transforming growth factors alpha and beta. Other less well Batch Citation Matcher characterized angiogenesis factors have also been isolated, some of which Clinical Queries LinkOut are lipids. This article traces the discovery of the angiogenic factors and Cubby describes their possible significance in understanding growth regulation of the vascular system. When evaluated according to their putative targets, they Related Resources appear to fall into two groups: those that act directly on vascular endothelial Order Documents **NLM Gateway** cells to stimulate locomotion or mitosis, and those that act indirectly by **TOXNET** mobilizing host cells (for example, macrophages) to release endothelial Consumer Health growth factors. In addition to their presence in tumors undergoing Clinical Alerts ClinicalTrials.gov neovascularization, the same angiogenic peptides are found in many normal PubMed Central tissues where neovascularization is not occurring. This suggests that physiological expression of angiogenic factors is tightly regulated. In Privacy Policy addition to the persistent angiogenesis induced by tumors, it now appears that a variety of nonneoplastic diseases, previously thought to be unrelated. can be considered as "angiogenic diseases" because they are dominated by the pathologic growth of capillary blood vessels. Publication Types: Review PMID: 2432664 [PubMed - indexed for MEDLINE]

Abstract

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